

REQUEST FOR CHANGE FORM

PART I: ORIGINATION

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1. AWIPS CHANGE CONTROL NUMBER (CCN): *NWS479P*
(To be filled in by CCB Secretariat)
 2. ORIGINATOR'S NAME: **Kevin Kay**
 3. OFFICE: NWS, OS014
 4. DATE SUBMITTED: 3/15/99
 5. DATE NEEDED: 5/15/99
 6. ORIGINATOR'S CHANGE REQUEST NUMBER:
 7. CHANGE REQUEST TITLE: **Radiosonde Replacement System**
 8. BASELINE DOCUMENT(S) AFFECTED: *(If SRS, state volume and section. If TSP, state number, category (I, II or III) and required implementation date (FAC, IDB or P³I). Attach change pages showing proposed changes using redline/strikeout.)*

This change affects several section of the System/Segment Specification (Type A) For The National Weather Service AWIPS, Document Number SSS-001-1994R1.

- (1) Section 2.1 Reference Document
- (2) Appendix E, Table E-1 WFO Segment Data Communications Interfaces
Appendix E, Table E-2 RFC Segment Data Communications Interfaces
- (3) Appendix K Data Acquisition Tables
- (4) Radiosonde Replacement System (RRS) ICD AAO130015

9. TYPE OF CHANGE:

- ☐ EDITORIAL
- ☒ CLARIFICATION OF REQUIREMENT(S)
 - ☐ REVISED REQUIREMENT LANGUAGE
 - ☐ UPDATED CODE/INTERNAL DOCUMENTATION
 - ☒ UPDATED DOCUMENTATION/REFERENCES
- ☒ NEW REQUIREMENT(S)
 - ☐ NEW REQUIREMENT LANGUAGE
 - ☐ NEW CODE/INTERNAL DOCUMENTATION
 - ☒ NEW DOCUMENTATION/REFERENCES
 - ☐ DELETION OF REQUIREMENT(S)

Revised 4/15/93

10. IMPORTANCE OF CHANGE:

- [] MINOR - clarification/editorial
- [x] SIGNIFICANT - needed but not critical to mission
- [] MAJOR - critical to mission

11. DETAILED DESCRIPTION OF CHANGE: *(Describe what is being changed and the scope of the change. If new or updated code is being provided, describe how the new code differs from the previous version and the number of lines of code and/or modules changed. Attach additional pages if necessary.)*

- (1) A new ICD for the RRS is being added to Section 2.1 of the SSS. See Attachment 1
- (2) SSS, Appendix E, Tables E-1 and E-2 are being updated to reflect the RRS connection to AWIPS/LDAD. See Attachment 2
- (3) SSS, Appendix K is being updated to add one new upper product. See Attachment 3
- (4) Radiosonde Replacement System ICD AA0130015. See Attachment 4

12. REASON FOR CHANGE: *(Discuss why the change is needed. Attach additional pages if necessary.)*

The current upper air system, Microcomputer Automated Radio-Theodolite (MicroART), utilizes a very antiquated and inefficient manner to transfer data products onto the AWIPS network. The MicroART system also requires manual operations to manage the NWS HQ radiosonde inventory database. Therefore, a new state of the art upper air system, the Radiosonde Replacement System (RRS) will be replacing all of the old MicroART system. The RRS will be phased in at NWS sites over the next four years (2000 - 2004).